

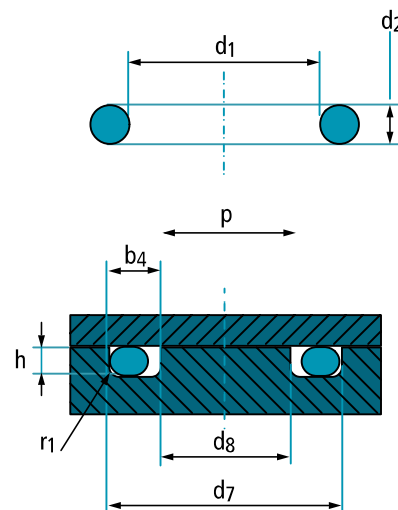
Load Axial Sealing

Calculation Result

Squeeze	min	=	24.18	[%]
	max	=	29.62	[%]
Squeeze	min	=	1.26	[mm]
	max	=	1.62	[mm]
Groove Fill	min	=	81.21	[%]
	max	=	98.58	[%]
Elongation OR Inside-Ø	min	=	1.97	[%]
	max	=	3.30	[%]
Compression OR Outside- Ø	min	=	no	[%]
	max	=	no	[%]
Groove Width	b ₄ min	=	6.20	[mm]
	b ₄ max	=	6.51	[mm]

Note:

O-ring calculation for main flange pressure seal (5.34mm) using Trelleborg O-ring calculation software v4.0 "layer_en_metric"



Recommended squeeze

"static applications": 15-30%

Recommended squeeze

"FFKM O-Rings": 12-18%

Recommended groove fill: max. 85%

Recommended elongation

OR inside-Ø: max. 3%

Recommendend compression

O-Ring outside-Ø: max. 3%

Load Axial Sealing

Input	[mm]	Norm/Fit	Lower Tolerance [mm]	Upper Tolerance [mm]
Groove Outside-Ø d7 min = d7 max=	1377.600 1377.600 1377.850	opt.	0.000	0.250
Groove Inside-Ø d8 min = d8 max=	1365.200 1364.820 1365.200	opt.	-0.380	0.000
Groove Depth h min = h max=	3.900 3.850 3.950	rec.	-0.05	0.05
Groove Radius r1 min = r1 max=	1.000 0.900 1.100	rec.	-0.100	0.100
O-Ring Inside-Ø d1 min = d1 max=	1330.000 1321.540 1338.460	ISO	-8.46	8.46
O-Ring Cross Section-Ø d2 min = d2 max=	5.340 5.210 5.470	ISO	-0.13	0.13
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Temperature °C			23	
O-Ring Material			HNBR	
Linear Thermal Expansion Coefficient 10 ⁻⁶ K ⁻¹			175	

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